

INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. 21501-721	SERIAL NO. <i>9/811,365</i> Unassigned			
		APR 09 2001 U.S. PATENT DOCUMENTS	APPLICANT Sorin			
		FILING DATE 03/16/01	GROUP <i>Not Assigned 2379</i>			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
<i>BuH</i>	J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends", Opt. Lett., vol. 12, 281-283 (1987).					
<i>BuH</i>	B.Y. Kim, J.N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode optical fibers", OFS '86, Tokyo, Japan (October 8-10, 1986).					
<i>BuH</i>	H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers", Journal of Lightwave Technology, vol. 6, 428-436 (1988).					
<i>BuH</i>	J.O. Askautrud and H.E. Engan, "Fiberoptic frequency shifter with no mode change using cascaded acousto-optic interaction regions", Opt. Lett., vol. 15, 649-651 (1990).					
<i>BuH</i>	H.E. Engan, T. Myrteit, and J.O. Askautrud, "All-fiber acousto-optic frequency shifter excited by focused surface acoustic waves", Opt. Lett., vol. 16, 24-26 (1991).					
<i>BuH</i>	H.E. Engan, D.Östling, P.O. Kval, and J.O. Askautrud, "Wideband operation of horns for excitation of acoustic modes in optical fibers", Proc. OFS(10), Glasgow, 11th - 13th Oct. 1994, 568-571 (SPIE Proc. 2360).					
<i>BuH</i>	D. Östling and H.E. Engan, "Narrow-band acousto-optic tunable filtering in a two-mode fiber", Opt. Lett., vol. 20, 1247-1249 (1995)					
<i>BuH</i>	H.E. Engan, "Analysis of polarization mode coupling by acoustic torsional waves in optical fibers", J. Opt. Soc. Am. A., vol. 13, 112 - 118 (1996).					
<i>BuH</i>	D. Östling and H.E. Engan: "Spectral flattening by an all-fiber acousto-optic tunable filter", 1995 IEEE Ultrasonics Symposium, 837 - 840.					
<i>BuH</i>	D. Östling and H.E. Engan: "Broadband spatial mode conversion by chirped fiber bending", Opt. Lett., vol. 21, 192 - 194 (1996).					
<i>BuH</i>	D. Östling and H.E. Engan: "Polarization-selective mode coupling in two-mode Hi-Bi fibers", Journal of Lightwave Technology, vol. 15, 312-320 (1997).					
<i>BuH</i>	D. Östling, B. Langli, and H.E. Engan: "Intermodal beat lengths in birefringent two-mode fibers", Opt. Lett., vol. 21, 1553 - 1555 (1996).					
EXAMINER <i>B. Langli</i>	DATE CONSIDERED <i>3/5/03</i>					

EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO. 21501-721	SERIAL NO. Unassigned 09X11365			
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SEARCHED U.S. PATENT DOCUMENTS						
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BuH	H.E.Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers", 1996 IEEE Ultrasonics Symposium, 799-802					
BuH	D. Östling and H.E. Engan: "Acousto-optic tunable filters in two-mode fibers", Optical Fiber Technology, vol. 3, 177 - 183 (1997).					
BuH	B. Langli, P. G. Sinha and K. Blotekjær, "Acousto-Optic Mode Coupling of Partially Coherent Light in Two-Mode Fibers", Optical Review, Vol.4, No.1A, pp.121-129, Jan./Feb. 1997.					
BuH	T.A. Birks, P.S.J. Russell and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber", IEEE Photonics Technol. Lett., vol. 6, p. 725 – 727 (1994).					
BuH	M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter", Opt. Lett., vol. 17, 270-272 (1992)					
BuH	J. Blake and P. Siemsen, "Practical compact high performance fiber-optic frequency shifter", Proc. 9 <sup>th</sup> OFS Conference, Firenze, pp. 301 – 304 (1993).					
BuH	W. P. Risk, G. S. Kino and H. J. Shaw, "Fiber-optic frequency shifter using a surface acoustic wave incident at an oblique angle", Optics Letters, Vol. 11, No. 2, pp 115-117, 1986.					
BuH	W. P. Risk, R. C. Youngquist, G. S. Kino and H. J. Shaw, "Acousto-optic frequency shifting in birefringent fiber", Optics Letters, Vol. 9, No. 7, pp 309-311, 1984.					
BuH	W. P. Risk and G. S. Kino, "Acousto-optic fiber-optic frequency shifter using periodic contact with a copropagating surface acoustic wave", Optics Letters, Vol. 11, No. 5, pp 336-338, 1986.					
BuH	W. P. Risk and G. S. Kino, "Acousto-optic polarization coupler and intensity modulator for birefringent fiber", Optics Letters, Vol. 11, No. 1, pp 48-50, 1986.					
BuH	W.P. Risk, G.S. Kino and B.T. Khuri-Yakub, "Tunable optical filter in fiber-optic form", Opt. Lett., vol. 11, p. 578 – 580 (1986).					
BuH	S.F. Su, R. Olshansky, D A. Smith and J.E. Baran, "Flattening of erbium-doped fibre amplifier gain spectrum using an acousto-optic tunable filter", Electron. Lett., vol. 29, p. 477 – 478 (1993).					
BuH	Yijiang Chen, "Acousto-optic frequency shifter using coaxial fibers", Optical and Quant. Elect., vol. 21, pp. 491 – 498 (1989).					
EXAMINER	B. Healy		DATE CONSIDERED	3/5/03		

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>Burk</i>	J. Ji, D. Uttam and B. Culshaw, "Acousto-optic frequency shifting in ordinary single-mode fibre", Electronics Letters, Vol. 22, No. 21, pp 1141-1142, 1986.					
<i>Burk</i>	C. N. Pannell, R. P. Tatam, J. D. C. Jones and D. A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre", Electronics Letters, Vol. 23, No. 16, pp 847-848, 1987.					
<i>Burk</i>	K. Nosu, H. F. Taylor, S. C. Rashleigh and J. F. Weller, "Acousto-optic phase modulator and frequency shifter for single-mode fibers", Ultrasonics Symposium, pp 476-481, 1983.					
EXAMINER	<i>B. Healy</i>		DATE CONSIDERED	<i>3/3/03</i>		

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>BMT</i>	Sorin, W.V. et al, "Phase Velocity Measurements using Prism Output for Single and Few-Mode Fibers", <i>Optics Letters</i> , Feb. 1986, Vol. 11, No. 2, pp. 106-108					
<i>BMT</i>	Blake, B.Y. et al, "Fiber-Optic Modal Coupler using Periodic Microbending", <i>Optics Letters</i> , Mar. 1986, Vol. 11, No. 3, pp. 177-179					
<i>BMT</i>	Kim, B.Y. et al., "All-Fiber Acousto-Optic Frequency Shifter", <i>Optics Letters</i> , June 1986, Vol. 11, No. 6, pp. 389-391					
<i>BMT</i>	Sorin, W.R. et al, "Highly Selective Evanescent Modal Filter for Two-Mode Optical Fibers", <i>Optics Letters</i> , Sept. 1986, Vol. 11, No. 9, pp. 581-583					
<i>BMT</i>	Blake, J.N. et al, "Analysis of Intermodal Coupling in a Two-Mode Fiber with Periodic Microbends", <i>Optics Letters</i> , April 1987, Vol. 12, No. 4, pp. 281-283					
<i>BMT</i>	Kim, B.Y. et al, "Use of Highly Elliptical Core Fibers for Two-Mode Fiber Devices", <i>Optics Letters</i> , Sept 1987, Vol. 12, No. 9, pp. 729-731					
<i>BMT</i>	Blake, J.N., et al, "Strain Effects on Highly Elliptical Core Two-Mode Fibers", <i>Optics Letters</i> , Sept. 1987, Vol. 12, No. 9, pp. 732-734					
<i>BMT</i>	Engan, H.E. et al, "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibers", <i>IEEE Journal of Lightwave Technology</i> , Mar. 1988, Vol. 6, No. 3, pp. 428-436					
<i>BMT</i>	Park, H.G. et al, "Intermodal Coupler using Permanently Photo-Induced Grating in Two-Mode Optical Fibre", <i>Electronic Letters</i> , June 8, 1989, Vol. 25, No. 12, pp. 797-799					
<i>BMT</i>	Park, H.G. et al, "All-Optical Intermodl Switch using Periodic Coupling in a Two-Mode Waveguide", <i>Optics Letters</i> , August 15, 1989, Vol. 14, No. 16, pp. 877-879					
<i>BMT</i>	Huang, S.Y. et al, "Perturbation Effects on Mode Propagation in Highly Elliptical Core Two-Mode Fibers", <i>IEEE Journal of Lightwave Technology</i> , Jan. 1990, Vol. 8, No. 1, pp. 23-33					
EXAMINER	<i>R. Healy</i>	DATE CONSIDERED		<i>3/5/03</i>		

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<b>INFORMATION DISCLOSURE O'NEILL</b> 		ATTY. DOCKET NO.	SERIAL NO.
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		APPLICANT Wayne V. Sorin	
		FILING DATE 3/16/01	GROUP <u>Unassigned</u> 2874

**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

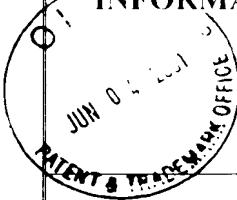
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

<i>S. M. H.</i>	Koh, Y.W. et al, "Strain Effects on Two Mode Fiber Gratings", <i>Optics Letters</i> , Apr. 1, 1993, Vol. 18, No. 7, pp. 497-499
<i>B. M. H.</i>	Yun, S H. et al, "All-fiber Tunable Filter and Laser based on Two-mode Fiber", <i>Optics Letters</i> , Jan. 1996, Vol. 21, No. 1, pp. 27-29
<i>B. M. H.</i>	Yun, S H. et al, "Suppression of Polarization Dependence in a Two-Mode Fiber Acousto-Optic Device", <i>Optics Letters</i> , June 15, 1996, Vol. 21, No. 12, pp. 908-910
<i>B. M. H.</i>	Kim, H.S. et al, "Longitudinal Mode Control in Few-Mode Erbium-Doped Fiber Lasers", <i>Optics Letters</i> , Aug. 1, 1996, Vol. 21, No. 15, pp. 1144-1146
<i>B. M. H.</i>	Jeon, M.Y. et al, "An Electronically Wavelength-Tunable Mode-Locked Fiber Laser Using an All-Fiber Acoustooptic Tunable Filter", <i>IEEE Photonics Technology Letters</i> , Dec. 1996, Vol. 8, No. 12, pp. 1618-1620
<i>B. M. H.</i>	Kim, H.S. et al, "All-fiber acousto-optic tunable notch filter with electronically controllable profile", <i>Optics Letters</i> , Oct. 1, 1997, Vol. 22, No. 19, pp. 1476-1478
<i>B. M. H.</i>	Yun, S H. et al, "Wavelength-Swept Fiber Laser with Frequency Shifted Feedback and Reasonantly Swept Intra-Cavity Acoustooptic Tunable Filter", <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , Aug. 1997, Vol. 3, No. 4, pp. 1087-1096 (Invited Paper)
<i>B. M. H.</i>	Jeon, M.Y. et al, "Harmonically mode-locked fiber laser with an acousto-optic modulator in a Sagnac loop and Faraday rotating mirror cavity", <i>Optics Communications</i> , Apr. 15, 1998, Vol. 149, pp. 312-316
<i>B. M. H.</i>	Kim, H.S. et al, "Actively gain-flattened erbium-doped fiber amplifier over 35nm using all-fiber acoustooptic tunable filters", <i>IEEE Photonics Technology Letters</i> , June 1998, Vol. 10, No. 6, pp. 790-792
<i>B. M. H.</i>	Hwang, I.K. et al, "Long-period fiber gratings based on periodic microbends", <i>Optics Letters</i> , Sept. 15, 1999, Vol. 24, No. 18, pp. 1263-1265
<i>B. M. H.</i>	Yun, S H. et al, "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters", <i>IEEE Photonics Technology Letters</i> , Oct. 1999, Vol. 11, No. 10, pp. 1229-1231

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>SMH</i>	Blake, J.N. et al, "All-Fiber Acousto-Optic Frequency Shifter using Two-Mode Fiber", <i>Proceedings of the SPIE Fiber Optic Gyros</i> , Sept. 1986, Vol. 719, pp. 92-100					
<i>SMH</i>	Blake, B.Y. et al, "Acousto-Optic Frequency Shifting in Two-Mode Optical Fibers", <i>OFS '86, Tokyo, Japan</i> , Oct. 8-10, 1986, pp. 159-162					
<i>SMH</i>	Engan, H.E. et al, "Optical Frequency Shifting in Two-Mode Optical Fibers by Flexural Acoustic Waves", <i>IEEE 1986 Ultrasonics Symposium</i> , Nov. 17-19, 1986, pp. 435-438					
<i>SMH</i>	Huang, S.Y. et al, "Mode Characteristics of Highly Elliptical Core Two-Mode Fibers under Perturbations", <i>OFS '88, New Orleans, Louisiana</i> , Jan. 27-29, 1988, pp. 14-17					
<i>SMH</i>	Kim, B.Y. et al, "Few-Mode Fiber Devices", <i>OFS '88, New Orleans, Louisiana</i> , Jan. 27-29, 1988, pp. 146-149, (Invited Paper)					
<i>SMH</i>	Kim, B.Y. et al, "Fiber-Optic Device Research at Stanford University", <i>Proceedings SPIE, Fiber Optic and Laser Sensors, Boston Massachusetts</i> , Sept. 5-7, 1989, Vol. 1169, pp. 10-15, (Invited Paper)					
<i>SMH</i>	Kim, B.Y. et al, "Few-Mode Fiber Devices", <i>ICOESE '90, Beijing, China</i> , Aug. 1990, Vol. 2, pp. 146-149, (Invited Paper)					
<i>SMH</i>	Koh, Y.W. et al, "Mode Coupling Fiber Gratings for Fiber Optic Devices", <i>OFS-9, Firenze, Italia</i> , May 4-6, 1993, pp. 35-38					
<i>SMH</i>	Yun, S.H. et al, "All-Fiber Acousto-Optic Tunable Filter", <i>OFC '95, San Diego, California</i> , Feb. 26-Mar. 3, 1995, pp. 186-187					
<i>SMH</i>	Yun, S.H. et al, "Electronically Tunable Fiber Laser Using All-Fiber Acousto-Optic Tunable Filter", <i>IOOC '95 (10th International Conference on Integrated Optics and Optical Fibre Communication) Hong Kong</i> , June 26-30, 1995, pp. 22-23					
<i>SMH</i>	Yun, S.H. et al, "Polarization Dependence of Two-Mode Fiber-Acousto-Optic Device", <i>OFS-11, Sapporo, Hokkaido, Japan</i> , May 21-24, 1996, pp. 478-481					
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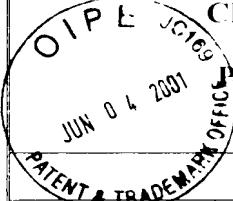
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<i>BmH</i>	Jeon, M.Y. et al, "Harmonically Mode-Locked Fiber Using an All-Fiber Acousto-Optic Tunable Filter", <i>OFC '97, Dallas, Texas</i> , Feb. 16-22, 1997, pp. 166-167						
<i>BmH</i>	Yun, S.H. et al, "Wavelength -swept Fiber Laser with Frequency-Shifted Feedback", <i>OFC '97, Dallas, Texas</i> , Feb. 16, 1997, pp. 30-31						
<i>BmH</i>	Kim, H.S. et al, "Single-Mode-Fiber Acousto-Optic Tunable Notch Filter", <i>2<sup>nd</sup> Optoelectronics &amp; Communications Conference '97</i> , July 8-11, 1997, pp. 226-227						
<i>BmH</i>	Yun, S.H. et al, "Fiber grating sensor array demodulation using wavelength-swept fiber laser", <i>OFS-12, Williamsburg, Virginia</i> , Oct. 28-31, 1997						
<i>BmH</i>	Hwang, I.K. et al, "All-fiber nonreciprocal comb filter with wavelength tunability", <i>OFC '98, ThQ5, San Jose, USA</i> , Feb. 22-27, 1998, pp. 336-338						
<i>BmH</i>	Kim, H.S. et al, "Dynamic gain equalization of erbium-doped filter amplifier with all-fiber-acousto-optic tunable filters", <i>OFC '98, WG4, San Jose, USA</i> , Feb. 22-27, 1998, pp. 136-138						
<i>BmH</i>	Koh, Y.W. et al, "Broadband Polarization-Insensitive All-Fiber Acousto-Optic Modulator", <i>OFC '98, WM50, San Jose, USA</i> , Feb. 22-27, Vol. 2, pp. 239-240						
<i>BmH</i>	Oh, K. et al., "Characterization of elliptic core fiber acousto-optic tunable filters operated in the single mode and the multi-mode range", <i>OFC '98, WM59, San Jose, USA</i> , Vol. 2, pp. 250-251						
<i>BmH</i>	Yun, S.H. et al, "Generation of self-starting mode-locked pulses in wavelength-swept fiber lasers", <i>CLEO/IQEC '98, San Francisco, USA</i> , May 3-8, 1998						
<i>BmH</i>	Hwang, I.K. et al, "Long-Period Gratings based on Arch-induced Microbends", <i>OECC '98, Chiba, Japan</i> , July 12-16, 1998, pp. 144-145						
<i>BmH</i>	Kim, B.Y. et al, "Fiber Based Acousto-Optic Filters", <i>OFC/IOOC '99, San Diego, USA</i> , Feb. 21-26, 1999, pp. 199-201, (Invited Paper)						
<i>BmH</i>	Hwang, I.K. et al, "Profile-controlled long-period fiber gratings based on microbends", <i>OFC/IOOC '99, San Diego, California</i> , Feb. 21-26, 1999, pp. 177-179						
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<u>BuH</u>	Park, H.S. et al, "All-fiber add-drop multiplexer using a tilted fiber Bragg grating and mode-selective couplers", <i>OFC/IOOC '99, San Diego, California, USA</i> , Feb. 21-26, 1999, TuH6, pp. 91-93						
<u>BuH</u>	Kim, B.Y., "Acousto-optic Components for WDM Applications", <i>IEEE/LEOS Summer Topical Meetings, San Diego, USA</i> , July 26-28, 1999, pp. 47-48, (Invited Paper)						
<u>BuH</u>	Kim, B.Y., "Acousto-optic filters for fiber systems", <i>ICO-128, San Francisco, USA</i> , Aug. 2-6, 1999, pp. 92-93, (Invited Paper)						
<u>BuH</u>	Song, K.Y. et al, "High Performance Fused-type Mode Selective Couple for Two-mode Fiber Devices", <i>OFC 2000, Baltimore, USA</i> , Mar. 5-10, 2000, Vol. 37, TuB5						
<u>BuH</u>	Risk, W.P. et al, "Acousto-optic frequency shifting in birefringent fiber", <i>Optics Letters</i> , 1984, Vol. 9, No. 7, pp. 309-311						
<u>BuH</u>	Birks, T.A. et al, "Four-port fiber frequency shifter with a null tapre coupler", <i>Optics Letters</i> , 1994, Vol. 19, No. 23, pp. 1964-1966						
<u>BuH</u>	Berwick, M. et al, "Coaxial optical-fiber frequency shifter", <i>Optics Letters</i> , Feb. 15, 1992, Vol. 17, No. 4, pp. 270-272						
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EXAMINER	<u>3/16/01</u>		DATE CONSIDERED	<u>3/5/03</u>			

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<i>Brut</i>	Kakarantzas, G. et al, "High strain-induced wavelength tunability in tapered fibre acousto-optic filters", <i>Electronics Letters</i> , July 6, 2000, Vol. 36, No. 14, pp. 1187-1188						
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EXAMINER	<i>B. Healy</i>		DATE CONSIDERED	<i>3/15/03</i>			

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<u>B. H.</u>	Huang, D.W. et al, "Q-switched all-fiber laser with an acoustically modulated fiber attenuator", <i>IEEE Photonics Technology Letters</i> , Sept. 2000, Vol. 12, No. 9, pp. 1153-1155						
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EXAMINER <u>B. H.</u>		DATE CONSIDERED <u>3/5/03</u>					

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